

Title (en)
Permanent-magnet type electric rotating machine

Title (de)
Rotierende elektrische Permanentmagnetmaschine

Title (fr)
Machine rotative électrique à aimants permanents

Publication
EP 2139093 A3 20110713 (EN)

Application
EP 09163623 A 20090624

Priority
JP 2008168045 A 20080627

Abstract (en)
[origin: EP2139093A2] A rotor (8) is deployed such that the rotor (8) becomes coaxially rotatable with a stator (2), A shaft (10) is fixed onto the axis of a rotor iron-core (9). 1-pole constituting magnet slots (11) are deployed into V-character pattern along an outer circumference portion of the rotor iron-core (9), Permanent magnets (12) are embedded into the magnet slots (11). For the 1 pole, the 2 pieces of same-polarity permanent magnets (12) are embedded into the V-character pattern. The configuration of each embedded permanent magnet (12) is designed as follows: From the thickness of the permanent-magnet edge portion on the inner-diameter side of the rotor iron-core (9), which becomes the center of the V-character pattern, the thickness of the permanent magnet (12) gradually increases toward the outer-diameter side of the rotor iron-core (9), which become the right and left edge portions of the V-character pattern. Simultaneously, curved lines (13) are provided on both edge portions of the permanent magnet (12).

IPC 8 full level
H02K 1/27 (2006.01)

CPC (source: EP US)
B60L 3/0061 (2013.01 - EP US); **B60L 50/51** (2019.01 - EP US); **H02K 1/2766** (2013.01 - EP US); **B60L 2200/26** (2013.01 - EP US); **B60L 2240/36** (2013.01 - EP US); **B60L 2260/28** (2013.01 - EP US); **Y02T 10/64** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2139093 A2 20091230; EP 2139093 A3 20110713; JP 2010011640 A 20100114; JP 4627788 B2 20110209; US 2009322175 A1 20091231; US 7952249 B2 20110531

DOCDB simple family (application)
EP 09163623 A 20090624; JP 2008168045 A 20080627; US 48892309 A 20090622